Table C.7-6. Waste processing alternative outputs.

Alternative/Waste Form	Composition	Quantity	No. of Containers	Disposition	Source
Continued Current Operation Alternative					
Transuranic Waste (remote-handled Waste Isolation Pilot Plant containers)	Dry solids	110 m^3	280	Waste Isolation Pilot Plant	Fewell (1999a,b)
Separations Alternative					
Full Separations Option					
Vitrified high-level waste (SRS canisters)	Glass	470 m^3	780	Onsite storage – NGR	Fluor Daniel (1997)
Class A low-activity waste (cylinders)	Grout	27,000 m^3	25,100	INEEL or offsite disposal	Fewell (1999b)
Planning Basis Option					
Vitrified high-level waste (SRS canisters)	Glass	470 m^3	780	Onsite storage – NGR	Fluor Daniel (1997)
Class A low-activity waste (cylinders)	Grout	30,000 m^3	27,900	Offsite disposal	Fewell (1999b)
Transuranic Waste (remote-handled Waste Isolation Pilot Plant containers)	Dry solids	110 m^3	280	Waste Isolation Pilot Plant	Fewell (1999a,b)
Transuranic Separations Option					
Transuranic solids (remote-handled Waste Isolation Pilot Plant containers)	Al_20_3, $Zr0_2$, phosphates, sulfates	220 m^3	560	Waste Isolation Pilot Plant	Kinnaman (1999)
Class C low-activity waste (cylinders)	cesium, strontium grout	22,700 m^3	21,100	INEEL or offsite disposal	Russell et al. (1998)
Non-Separations Alternative					
Hot Isostatic Pressed Waste Option					
Glass ceramic high-level waste (SRS canister)	$Si0_2$, $Ti0_2$, calcine (70 percent)	3,400 m^3	5,700	Onsite storage – NGR	Lee (1999a) Fewell (1999b)
Transuranic Waste (remote-handled Waste Isolation Pilot Plant containers)	Dry solids	110 m^3	280	Waste Isolation Pilot Plant	Fewell (1999a,b)

Table C.7-6. (continued).

Alternative/Waste Form	Composition	Quantity	No. of Containers	Disposition	Source
Direct Cement Waste Option					
Hydroceramic high-level waste (SRS canisters)	Clay, Slag, Caustic soda, Calcine	13,000 m^3	18,000	Onsite storage – NGR	Dafoe and Losinski (1998); Prendergast (1999); Lee (1999b)
Transuranic Waste (remote-handled Waste Isolation Pilot Plant containers)	Dry solids	110 m^3	280	Waste Isolation Pilot Plant	Fewell (1999a,b)
Early Vitrification Option					
Vitrified SBW transuranic (remote-handled Waste Isolation Pilot Plant containers)	Glass	360 m^3	900	Waste Isolation Pilot Plant	Kimmett (1999) Lopez (1998)
Vitrified calcine high-level waste (SRS canisters)	Glass	8,500 m^3	11,700	Onsite storage – NGR	Kimmett (1999)
Minimum INEEL Processing Alternative					
Transuranic Grout (contact-handled Waste Isolation Pilot Plant containers)	Grout	7,500 m^3	37,500	Waste Isolation Pilot Plant	Dafoe (1999) Fewell (1999b)
Vitrified high-level waste (Hanford canisters)	Glass	730 m^3	625	INEEL onsite storage – NGR	Jacobs (1998)
Vitrified low-activity waste (Hanford low-activity waste boxes)	Glass	14,400 m^3	5,550	INEEL or offsite disposal	Jacobs (1998)

m^3 = cubic meters
NGR = National Geologic Repository
SRS = Savannah River Site